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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,694	08/05/2003	Jeffrey A. Anderson	16316-002001	7611
27890	7590	10/20/2005		
STEPTOE & JOHNSON LLP 1330 CONNECTICUT AVENUE, N.W. WASHINGTON, DC 20036			EXAMINER CHAPMAN, JEANETTE E	
			ART UNIT	PAPER NUMBER
			3635	

DATE MAILED: 10/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/633,694

Applicant(s)

ANDERSON, JEFFREY A.

Examiner

Chapman E. Jeanette

Art Unit

3635

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 15 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1,3-15,17-30,32-51,53 and 54 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,3-15,17-30,32-51,53 and 54 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-15, 17-30, 32-51 and 53-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sucato et al (5605024) in view of Herren (5913788) and Bodnar (5527625).

Sucato et al discloses a metal framing member 61 comprising:

- a formed metal sheet including a plurality of expanded web slots in a region 64/65 of the formed sheet metal; (see column 4, lines 22-30);
- the expanded web slots include voids and metal web elements 62/63 in the region of the framing elements;
- the web region and first/second flanges extending from the web region are the surfaces shown in figures 20-21 of the u-shaped elements 62/63; the first and second flanges are parallel;
- the web region include expanded web slots shown in figure 21
- the first and second flanges include expanded web slots; the legs on the u-shaped members 62/63 are the closing regions extending the first flange to the second, standard for metal studs, to form the substantially tubular structure;
- Each web slot extends along a length of the framing member;

- The plurality of web slots are arranged in offset five or more columns parallel to the length of the framing member; see figures 20-21;
- Darts or dimples 66 proximate the web slots

Regarding claims 10: It is clear that the expanded slots may be formed on any surface were the accompanying function of providing reduction in material content, minimal heat transfer and noise reduction.

The method of manufacturer a framing member comprises:

- providing a formed sheet having a length and a web region
- placing a plurality of slots, formed by stamping, along a portion of the length of the web region ;stamping to form the mesh may include passing the sheet of a block in order to provide a substrate for performing the stamping process;
- stamping includes piercing slots into the region;
- expanding the slots includes mechanically moving the sides of the region apart; see figure 20-21

It would have been obvious to provide any treatment process to strengthen the integrity of the opening at the perimeter edge; one of ordinary skill in the art would have appreciated employing all known and available means to strengthen the perimeter around the opening to create a better product capable of functioning as intended.

Nevertheless, Bodnar discloses the heat treating process to form the beam and openings. See column 7, lines 50 thru column 8, line 65. It would have been obvious to

employ this method to increase the strength of the metal thus also the beam as disclosed by Bodnar.

The form the metal sheet assumes prior to use is a matter of choice; one of ordinary skill in the art would have appreciated using any sheet from any source that is capable of being transported to the place of manufacture.

As with any stud/beam, web the uses are limitless, it is obvious that such studs with openings'/slots may be used to provide for utility wiring and the like; the use of the stud is at the discretion and selection of the construction process and the participants.

Sucato et al shows darts or dimples 66 proximate the slots but lacks the plurality of reinforcements also proximate the web slots. Bodnar shows a beam with slots and scoop shaped or dimpled flanges type reinforcements 100 and 104. Herren also shows a beam with slots and reinforcements proximate the slot. It would have been obvious to one of ordinary skill in the art to modify Sucato et al by imparting the reinforcements proximate the slots to strengthen the beam structure.

Applicant's arguments filed July 15, 2005 are not persuasive. Applicant argues that none of the references teach the slot with dimples and reinforcements proximate the same. No one particular reference teaches both the reinforcements and the dimples proximate the slot. However, from the secondary references of Bodner and Herren, it is clear that both, dimples and reinforcements, may be included with the slots. Contrary to applicant's arguments, just because one reference doesn't teach both limitations in one reference, the references do not teach the invention. It is clear that the reinforcements

and dimples are both taught in the art and it would be obvious to one of ordinary skill in the art to include both proximate the slot to strengthen the beam.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chapman E Jeanette whose telephone number is 571-272-6841. The examiner can normally be reached on Mon.-Fri, 8:30-6:00, every other fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Friedman Carl can be reached on 571-272-6842. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Handwritten signature of Janette Chapman. Below the signature, there is a faint, partially obscured stamp that appears to read "JANETTE CHAPMAN" and "Primary Examiner".